XTZ 99.26 White Center
XTZ 99.26 Walnut Center
XTZ 99.26 Black Matt Center

High-End Monitor speaker

User manual

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Congratulations of your purchase the XTZ 99.26 Center

When combined with surround audio/video electronics, you will experience sound of motion pictures or music records much deeply and naturally. Now when you watch your favourite movie or listen to your reference music CDs, you will hear and feel the sound surrounding you in the same way as originally intended by mastering engineers.

Read the manual before using the product and use all possibilities carefully.

About XTZ

Philosophy

Our reference and starting point is to recreate a natural sound, taking into account that acoustics always is a matter of taste.

XTZ Goal

Our main goal is to provide the best value for money.

Our concept:

- Cut down the numbers of middlemen

- Put more money on product quality and less on advertising.

- Manufacture cost-effective in large volume

- Provide perfect technical solutions

Contact

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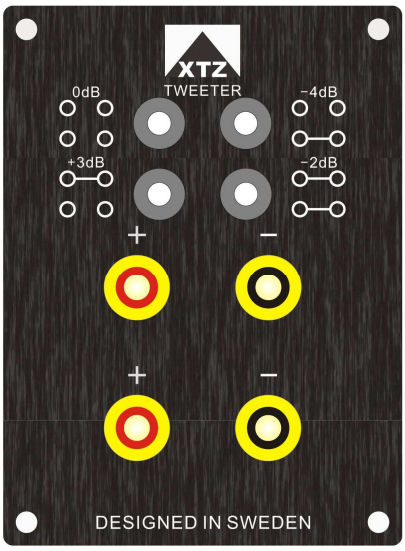
Technical presentation

Cabinet design	The box design with a narrow baffle and curved side - is not only an aesthetically neat shape, but also has some advantages in terms of acoustics, since nonparallel walls muffles internal resonances of the cabinet. The cabinet is made in sturdy MDF board, which has good sonic qualities. The cabinet is further strengthened with bars, which in total yields a very stable construction.	
Tweeter driver	We have chosen a ribbon tweeter which provides superior transient response and a very flat frequency response The ribbon cone is super light and only 18 microns thin. It is a sandwich construction of rosin-aluminium-rosin that has been hardened at 320 degrees Celsius. The magnet system is a 2 row high-efficient neodymium magnets in a moulded chassis of ceramic carbon steel. Fishbone shaped contactors in aluminium, yields a low connection resistance and good heat derivation. The driver has high power durability and handles frequencies up to 40000 Hz which makes it DVD-Audio and SACD-ready.	
Woofer/midrange driver	After evaluating a large number of drivers from different manufacturers we selected one from Seas, a company that has a solid reputation in the area of high quality speaker drivers. You find Seas drivers in many well-known High End speakers. For woofer/midrange we decided on a 6,5" magnesium driver from the Seas Excel series that have extreme performance. We claim that finding a better 6,5" driver on the market is a very difficult task. The surface treated magnesium cone is extremely light but still extremely stiff and effectively reduces resonances. The rubber surround makes sure that no edge resonances are present. The moulded metal basket of "high flow" type that is acoustically transparent and high precision since the basket is shaped exactly due to moulding. This makes sure that the basket is very stable and efficiently reduces resonances. The basket is absolutely none magnetically, which contributes to a higher efficiency of the driver. A strong magnet combined with the light cone yields a high efficiency and a good transient response. Heavy copper rings mounted above and below the T-shaped pole piece reduces non linear and modulation distortion and increases the overload margin.	

	The copper plating of the top and bottom plates along with a solid copper phase plug improves the heat conduction and thus contributes to the high power durability. Gold plated terminals reduce contact resistance and serves as anti-corrosion. Large windows in the basket both above and below the spider reduces sound reflection, air flow noise and cavity resonances.	

Crossover / Binding post	We have chosen a -12 dB crossover that has a fast transient response and a minimum of phase shiftings. The connectors are gold-plated and of bi-wiring type so that you can connect to the amplifier with double cables (bi-wiring), or connect to two amplifiers (bi-amping) for further improving the sound. The following coupling modes are available: **1. Upper terminal + lower terminal (loops present)** Default setting, the loudspeaker is fed with the entire frequency range. Without the loop between upper and lower terminal: **2. Upper terminal.** The signal is only fed to the tweeter. **3. Lower terminal.** Now the signal is fed to the woofer only.	

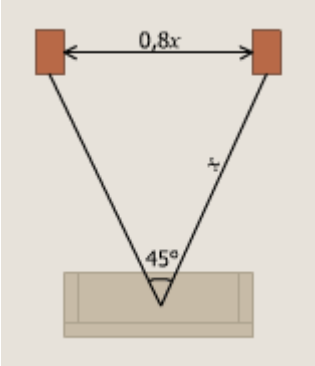
Preparations

Unpackning	Carefully unpack the speaker, and pay attention so you don't break anything. If possible, save the carton box for future transportations. If there should be damage on the loudspeaker, please contact your retailer.	

Accessories	Bass reflex plug User manual Rubber feet Loops for level adjustment	

Practice of sound / Installation and placement tips

	This chapter contains common information on loudspeaker placement and installation. This is general rules, so there are exceptions of some rules
In which room do you achieve the best sound?	No matter how good the equipment is, in the wrong listening environment it will inevitably sound bad. There are some basic rules concerning a proper loudspeaker installation:
Reflections	Carpets, curtains and soft furniture absorb mid range and high frequency sound, and this is preferable. Big empty area, on the contrary, reflects it and produces hard reflections that may lead to blurry dialogue. Apart from colouring the sound, also the perspective of the sound will deteriorate. Reflections in the room can roughly be compared to the reflections that yield ghost pictures on a TV screen.
Amplification of bass frequencies	A loudspeaker that is placed near a wall, ceiling or floor will amplify lower frequencies in a sometimes not desirable way (since it may lead to an indistinct sound recreation). This amplification becomes even more obvious if the loudspeaker is placed near a corner. Thus, for a sound as clear as possible, the loudspeaker should be placed at least 30 cm (about 12 inch) away from the wall Some constructions are made to be placed closed to a wall.
Furniture	Be aware that furniture may vibrate and thus create bad sound at loud bass.
Room dimension	Quadratic rooms or rooms where the length is exactly twice as long as the width should be avoided, since they may create unwanted resonance.
Placement of the subwoofer	The placement of the subwoofer in the room dramatically affects the overall frequency response and sound level of the system. At low frequencies the effect of the room is strong. Even a slight change in the subwoofer's location can make a significant difference in the frequency balance. Patience and methodical experimentation is needed to find an optimal placement. The placement affects the phase difference between the main loudspeakers and the subwoofer. One basic rule is to place the subwoofer together with or near the front system (especially important if the front loudspeaker also propagate bass frequencies) as this will minimize the risk of phase eliminations in the room.

Cables	Try to keep them as short as possible. By its electrical parameters, a long conductor will have a bigger influence on the sound than a short one. It may also work as an antenna and thus receive various signals that may become a constant noise in an active subwoofer. Make sure that all connections are clean and not oxidized. All connections should be mechanically stable, both power, signal and loudspeaker cables. Signal cables should be separated from other cables.	
Front speakers	To get the best result the front speakers should be placed symmetrical in front of the listener. The distance between the front speakers should be around 80% of the distance to the listener. In other words, the recommended angle between the front speakers should be 45°.	
Why use 2 Subwoofer	There are more then one benefits of having 2 subwoofers instead of one. The sound pressure level will be higher. Less dips and standing waves in the room and a better frequency response in the room (and on sweet spot) The need of power is less, to reach the same SPL as with one subwoofer	
Finally	Please remember that good sound is a matter of taste, so you have to experiment to obtain your favourite one. We wish you best of luck!	

Mounting and Connecting tips

Mounting alternatives	Normally the XTZ 99.26 Center is placed near a TV set or a projector screen. The wall behind affect the reproduction of the speaker and characteristics. Please take your time to try out the best placement.	
Connect using the correct phase	Always connect using the correct phase, from the +-pole on the amplifier to the +-pole on the loudspeaker and corresponding for minus (-).	If you by accident connect the other way, there is no risk of damage. However, the sound will not be correct, especially in the lower frequencies.
Overload	At high load during extensive time periods, there is always the risk of overloading the driver and amplifier.	All loudspeakers have a limited patience for high power, so be careful not to play extremely loud and not to increase treble or bass settings to much. By increasing the bass or treble from 0 to max you will increase the power by about 16 times.
The initial playing time	It takes about 50 to 100 hour of initial playing time, for the driver to sound optimal. During this time, the speaker may be used normally.	
Rotate tweeter	A Center speaker can both be used as standing or lying down. The tweeter can therefore be rotated 90 deg, so it can fit the need of the owner.	

Sound settings

Room Tuning - Mechanical adjustment of the boundary frequency

By using the supplied bass plugs in the bass reflex gates, you can alter the lower boundary frequency on the XTZ 99.26 Center.

Also the treble level may be adjusted, which allows you to perfectly alter the sonic to fit the room, equipment and your own taste.

Closed gate
With the bass plug mounted in the bass reflex gate, the cabinet is closed and the loudspeaker operates as a closed construction which yields a more "tight" bass reproduction.

Bass reflex
With no plug present in the gate you have a higher bass level and the loudspeaker is capable of handling lower frequencies.

This setting also depends on the size and shape of the room, and also on your own taste, so please has patience when trying out your preferred setting.

Level adjustment in the treble range

In the treble range the level is adjustable in four different modes using the supplied loop connector.

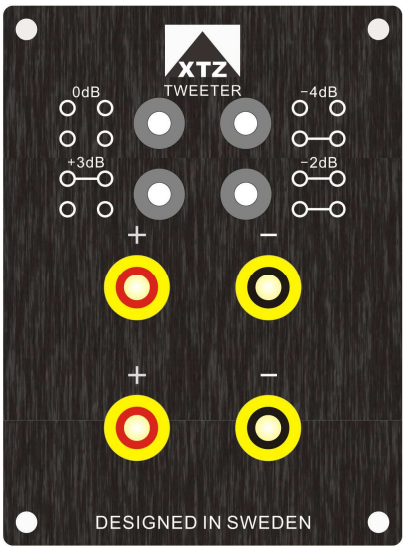
Level adjustment in the treble range:

Mode 1/ 0dB
In this mode the sound is neutral with a flat frequency response.

Mode 2/ +3dB
In this mode the treble level is increase by 3dB.

Mode 3/ -2dB
In this mode the treble level is decreased by 2dB.

Mode 4/ -4dB
In this mode the treble level is decreased by 4dB.



Binding post / Biwiring

We have chosen a -12 dB crossover that has a fast transient response and a minimum of phase shiftings.

The connectors are gold-plated and of bi-wiring type so that you can connect to the amplifier with double cables (bi-wiring), or connect to two amplifiers (bi-amping) for further improving the sound. The following coupling modes are available:

1. Upper terminal + lower terminal (loops present)
Default setting, the loudspeaker is fed with the entire frequency range.

Without the loop between upper and lower terminal:

2. Upper terminal. The signal is only fed to the tweeter.

3. Lower terminal. Now the signal is fed to the woofer only.

Technical specifications

Construction type	2-way, Bass reflex cabinet that may be set as a closed box. The treble level is adjustable in four different levels. It is possible to rotate the tweeter, either vertical or horizontal. To fit the need of the owner.	
Dimensions	244 x 379 x 352 mm (W x H x D)	(with front cover)
Weight	9 kg/pc	
Magnetically shielded	No	
Impedance	4-8 ohm	
Binding post	Goldplated bi-wiring / Banana plug / Pole screw	
Efficiency	88dB	
Power	300 W Short term IEC 268-5 100 W Long term IEC 268-5	
Tweeter driver	Ribbon tweeter, SACD/DVD-Audio-ready, Sandwich ribbon cone in aluminium, neodymium magnets, chassis made in ceramic carbon steel. Possible to rotate tweeter.	
Woofer/midrange driver	6,5" SEAS Excel, Magnesium driver, moulded "high flow" driver basket, powerful magnet. 1900 gram.	
Connections and settings	• Gold plated biwiring. • Bass reflex settable to closed box. • The treble level is adjustable in 4 different modes.	

Service & support

"Do-It-Yourself"-service	We apply "do-it-yourself" service on all XTZ products. If you by yourself are able to find out what part of the loudspeaker is defective, you are fully allowed to unmount that part (which would normally be a driver, a filter or the amplifier) and send it back to us for exchange. However, if you are not certain about how to do it, please contact us before taking the loudspeaker apart. We can also help you finding the fault. You can of course always choose to return the whole loudspeaker; therefore you should save the original package.	To aid service, XTZ products are constructed and produced using common technology, so that basically most people are able to "unscrew" the loudspeaker using common tools.
If something is broken	If you cause additional defects by yourself when unmounting the defective part, the warranty still applies if it is obvious that the part had a manufacturing defect. In other cases however, the warranty does not apply if you cause other defects on the loudspeaker.	
Where to send the product for a warranty repair	For service we refer to your retailer. For questions regarding service, contact us by email support@xtz.se Web page: **www.xtz.se**	ALWAYS pack the product / part very carefully. Unfortunately damages during transportation are very common. If the package is weak, the transporting company does not compensate damages. Always enclose a copy of the receipt and a description of the defect.
Support	Please contact our free of charge support if you need installation advice, or if any problem occurs during the installation. Contact us by e-mail support@xtz.se and include your phone number if you wish verbal help, and we will call you back.	